



## DATA SHEET

# 3Com® Wireless LAN Building-to-Building Bridge

## Key Benefits

Performance, economy, and full Wi-Fi compatibility for transmissions up to 15 miles

### High Performance

The 3Com® Wireless LAN Building-to-Building Bridge delivers three to four times the bandwidth of T1 links, and works at distances up to 15 miles\*.

### Connection Flexibility

This bridge supports one-to-one as well as one-to-many (point-to-point or multipoint) topologies, for maximum flexibility in configuring building-to-building networks.

### Traffic Prioritization

When used together with a switch from the 3Com SuperStack® 3 Switch 4400 family, the 3Com Wireless LAN Building-to-Building Bridge lets users set up traffic prioritization parameters to optimize data flow between buildings.

### Multivendor Interoperability

Unlike systems that use proprietary protocols, this bridge is compatible with all other Wi-Fi-certified access points, so it fits easily within a multi-vendor infrastructure.

### Economy

The 3Com Wireless LAN Building-to-Building Bridge is easy to cost-justify,

The 3Com Wireless LAN Building-to-Building Bridge lets businesses replace expensive, low-bandwidth T1 lines and cable connections with wireless building-to-building links. The bridge allows companies to start with point-to-point topologies, then advance to point-to-multipoint as

because it delivers fast return-on-investment. And it's economical to operate, since it avoids the recurring costs of T1 or cable equipment.

### Strong Security

Support for 40- and 128-bit WEP encryption, as well as 128 bit Dynamic Security Link encryption; keeps network data and transmissions safe from security breaches.

### Standards Compliance

In addition to its Wi-Fi compatibility, the bridge supports IEEE 802.11b for 11 Mbps wireless transmission\*\* plus 802.3af for power over Ethernet.

### Manageability

A simple-to-use, web-based management interface lets administrators choose between managing all bridges locally, from any point on the subnet, or remotely, via the Internet.

### Reliability

Support for dynamic rate shifting helps keep network connections available.

growth and applications demand—all with a simple antenna change.

In large companies, the bridge fits within centralized management architectures, thanks to its interoperability with all multivendor bridges and access points that support the Wi-Fi standard.

\*15-mile range requires 3Com Wireless LAN Building-to-Building Bridges on both buildings; used with a non-3Com bridge, the operating range of the 3Com Wireless LAN Building-to-Building Bridge is 2 miles.

\*\*Data throughput can vary depending on several factors, including network traffic load, distance between bridges, and antennas used.

## Specifications

<p><b>802.11b Data Rates Supported</b> 11, 5.5, 2, 1 Mbps</p> <p><b>Range</b> Transmit and receive information up to 15 miles between wireless building-to-building bridges, depending on the antenna selected.</p> <p><b>Wireless Network Standard</b> IEEE 802.11b</p> <p><b>Network Connection Type</b> 10/100BASE-T</p> <p><b>Network Architecture Types</b> Bridge 802.3 to 802.11b</p> <p><b>Number of Users/Bridge</b> Unlimited</p> <p><b>Wireless Bridges/LAN</b> Unlimited</p> <p><b>Frequency Band</b> 2.4 GHz</p> <p><b>Wireless Medium</b> DSSS</p> <p><b>Media Access Protocol</b> CSMA/CA</p> <p><b>Modulation</b> DSSS</p> <p><b>Operating Channels</b> 1 through 13 (Worldwide)</p>	<p><b>Available Transmit Power</b> (depending on antenna selection and local legal restrictions) From 17 dB to 35 dB</p> <p><b>Settings</b> (depending on antenna selection and local legal restrictions) Up to 1000 mWatt</p> <p><b>Antenna</b> Multiple antenna options ensure the optimal signal strength for different environments.</p> <p><b>Encryption</b> 40- and 128-bit WEP shared key. 128-bit Dynamic Security Link encryption</p> <p><b>Security</b> VPN pass through</p> <p><b>Protocol Filtering</b> Networking protocols, such as NetBui, IPX, and TCP/IP, can be filtered out for performance optimization</p> <p><b>LEDs</b> Power: green Wireless: green when associated; yellow when transmitting/receiving Ethernet: green when connected; yellow when activity is detected Alert: amber Serial: green when RX; yellow when TX</p>	<p><b>Remote Configuration Support</b> Web interface UI</p> <p><b>Local Configuration</b> Web interface UI</p> <p><b>Bridging Protocol</b> Wi-Fi compliant</p> <p><b>Physical Dimensions</b> Maximum depth: 144mm (9.966 in)</p> <p><b>Maximum height</b> 41mm (5.673 in)</p> <p><b>Safety Compliance</b> Canada/ U.S.: UL1950/CSA 22.2 Europe: CE Marked</p> <p><b>Radio/Electromagnetic Conformance Compliance</b> US: FCC Part 15B&amp;C Canada: Industry Canada RSS-210 European Community: ETS 300 328, ETS 300 826 Australia: C-Tick</p> <p><b>Environmental Operating Ranges</b> Operating temperature: -20 to 55°C Storage temperature: -20 to 70°C Altitude: Up to 3 km. Humidity: 10 to 95% noncondensing</p> <p><b>Service and Support</b> One-year limited warranty</p>
--	---	---

## Ordering Information

Product Name	Region	Order Number
3Com 11 Mbps Wireless LAN Building-to-Building bridge	U.S., Canada, Latin America, Europe, Asia Pacific Rim, Australia, New Zealand, Hong Kong, Singapore, Europe and Latin America	3CRWE91096A
<b>Product Accessories</b>		
3Com 4dBi Omnidirectional Antenna	U.S., Canada, Latin America, Europe, Asia Pacific Rim, Australia, New Zealand, Hong Kong, Singapore, Europe, and Latin America	3CWE490
3Com 8dBi Omnidirectional Antenna	U.S., Canada, Latin America, Europe, Asia Pacific Rim, Australia, New Zealand, Hong Kong, Singapore, Europe, and Latin America	3CWE491
3Com 13dBi Sector Panel Antenna	U.S., Canada, Latin America, Europe, Asia Pacific Rim, Australia, New Zealand, Hong Kong, Singapore, Europe, and Latin America	3CWE495
3Com 18dBi Sector Panel Antenna	U.S. and Canada	3CWE496
3Com 6-Foot Antenna Cable	U.S., Canada, Latin America, Europe, Asia Pacific Rim, Australia, New Zealand, Hong Kong, Singapore, Europe, and Latin America	3CWE480
3Com 20-Foot Antenna Cable	U.S., Canada, Latin America, Europe, Asia Pacific Rim, Australia, New Zealand, Hong Kong, Singapore, Europe, and Latin America	3CWE481
3Com 50-Foot Antenna Cable	U.S., Canada, Latin America, Europe, Asia Pacific Rim, Australia, New Zealand, Hong Kong, Singapore, Europe, and Latin America	3CWE482

3Com Corporation, Corporate Headquarters, 5400 Bayfront Plaza, P.O. Box 58145, Santa Clara, CA 95052-8145.

To learn more about 3Com solutions, visit [www.3com.com](http://www.3com.com). 3Com Corporation is publicly traded on Nasdaq under the symbol COMS.

Copyright © 2002 3Com Corporation. All rights reserved. 3Com, the 3Com logo, and SuperStack are registered trademarks of 3Com Corporation. Wi-Fi is a trademark of the Wireless Ethernet Compatibility Alliance. All other company and product names may be trademarks of their respective companies. While every effort is made to ensure the information given is accurate, 3Com does not accept liability for any errors or mistakes which may arise. Specifications subject to change without notice.

400771-001 07/02

